QNAP

Virtualization Station 3.5

Virtual machine live migration ensures
smooth service and application performance

Problems by IT using virtual machine services

Virtual Machine service is too slow

The virtual machine service automatically stops running

Virtual Machine service is unstable

Virtual machine service security issues

IT maintenance process

Shutdown→Test Online→Shutdown again→Online

Update Firmware

Hardware device reboot

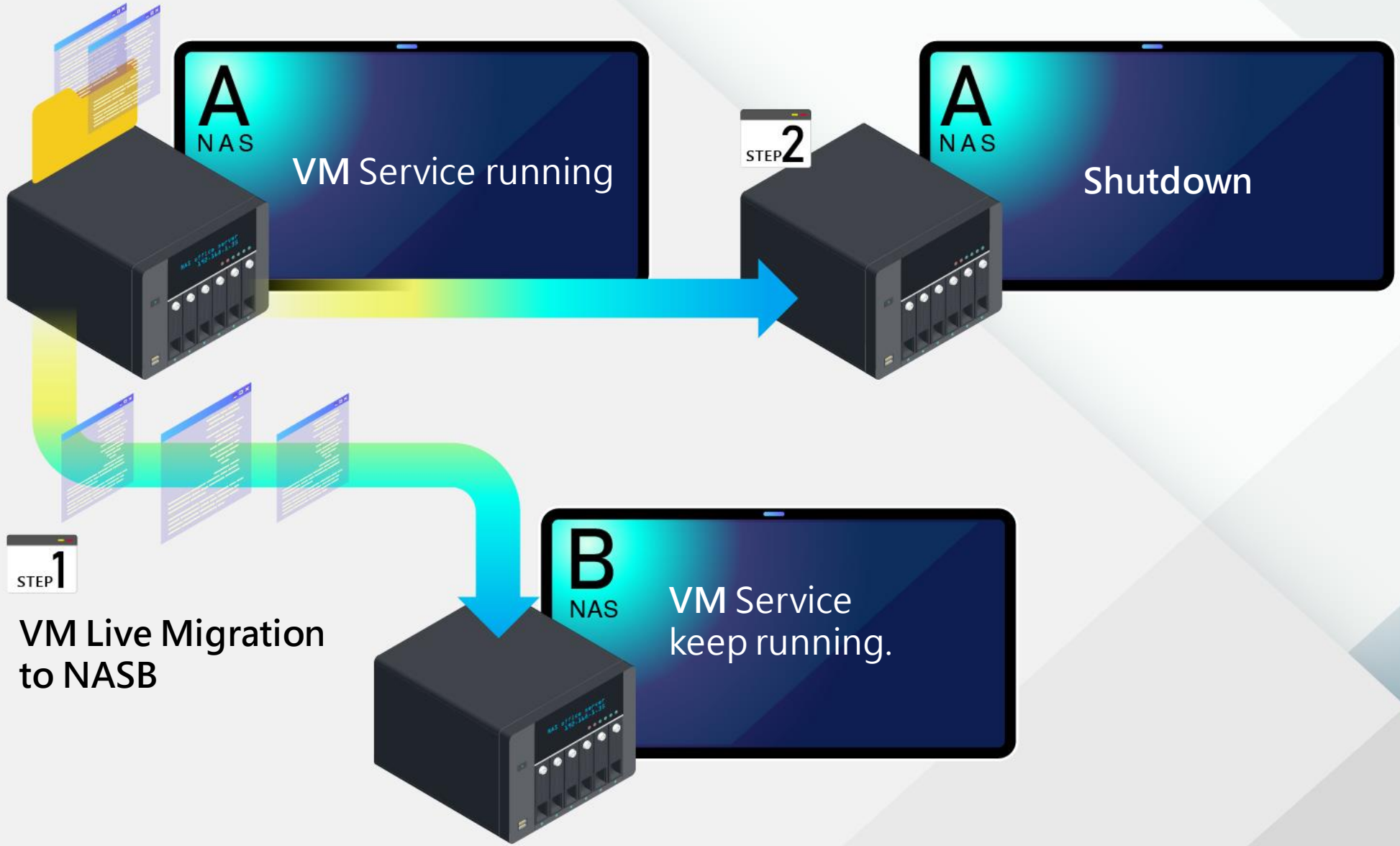
Update Hardware Device

Find issue Root Cause and test service

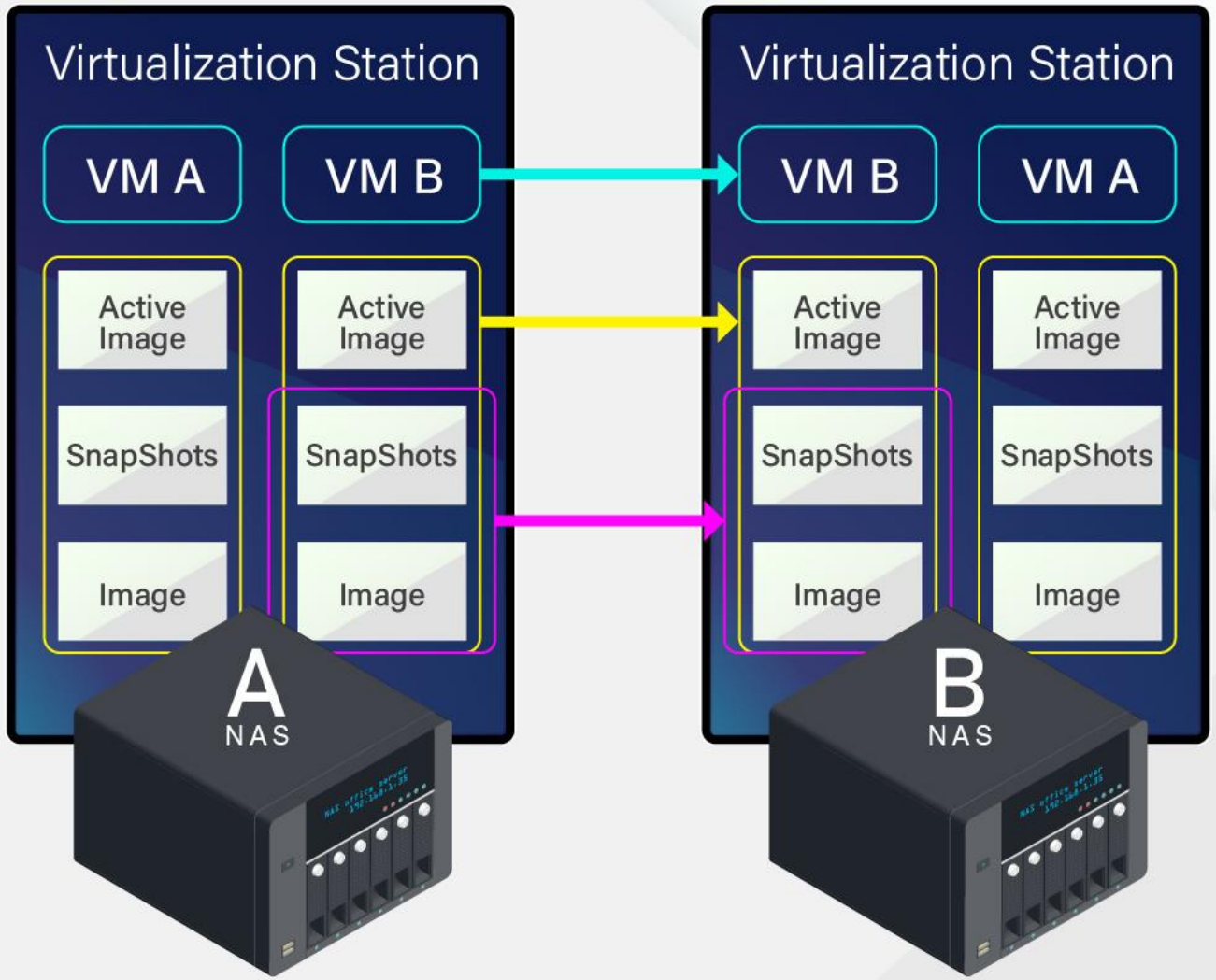
Switch to other hardware devices

Can the VM service run smoothly during IT maintenance?

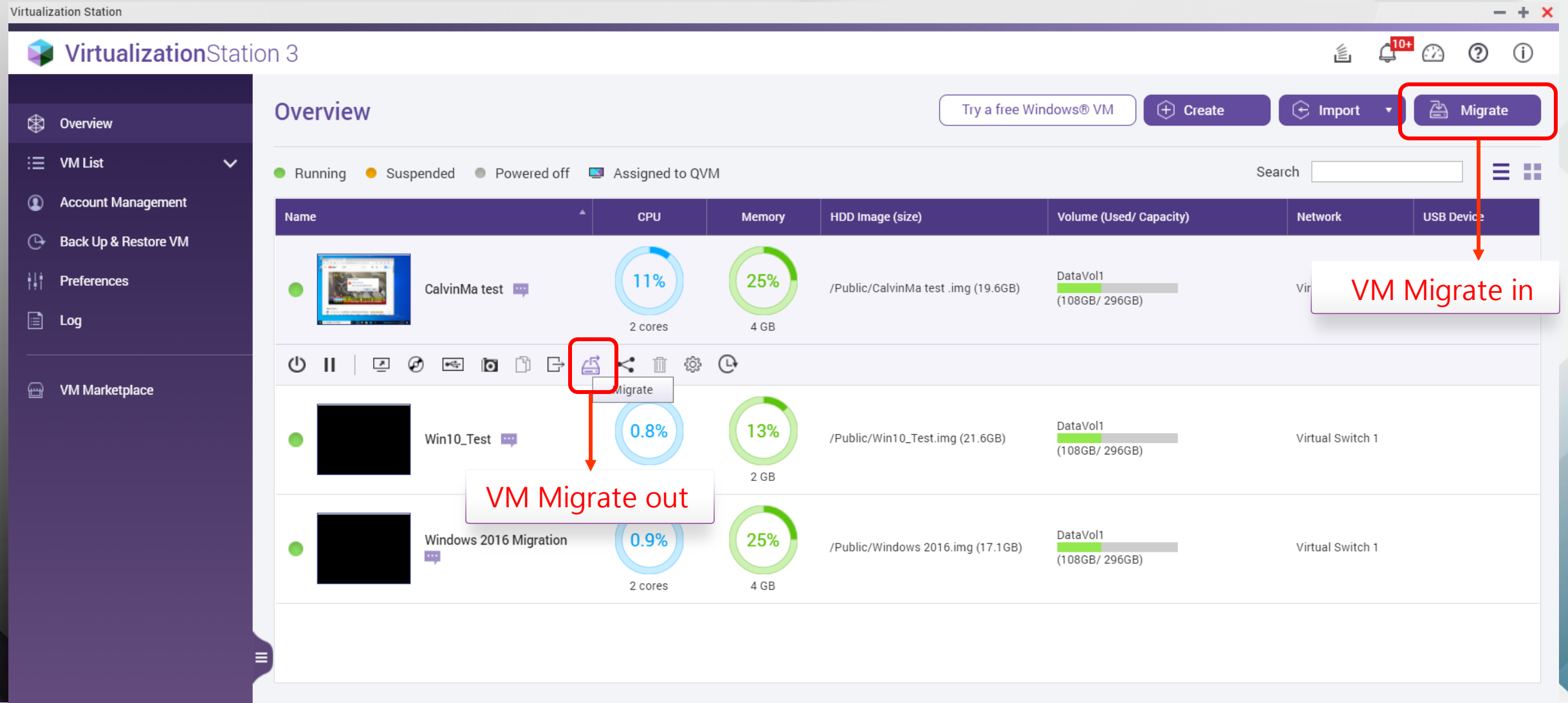
The VM Live Migration make IT maintenance more flexible



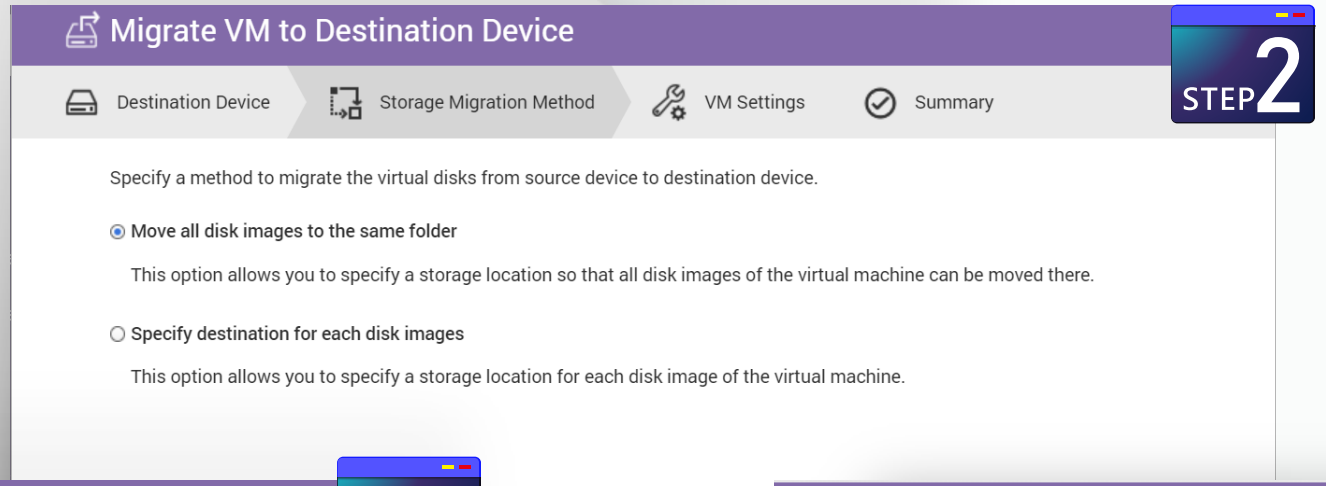
VM Live Migration Architecture

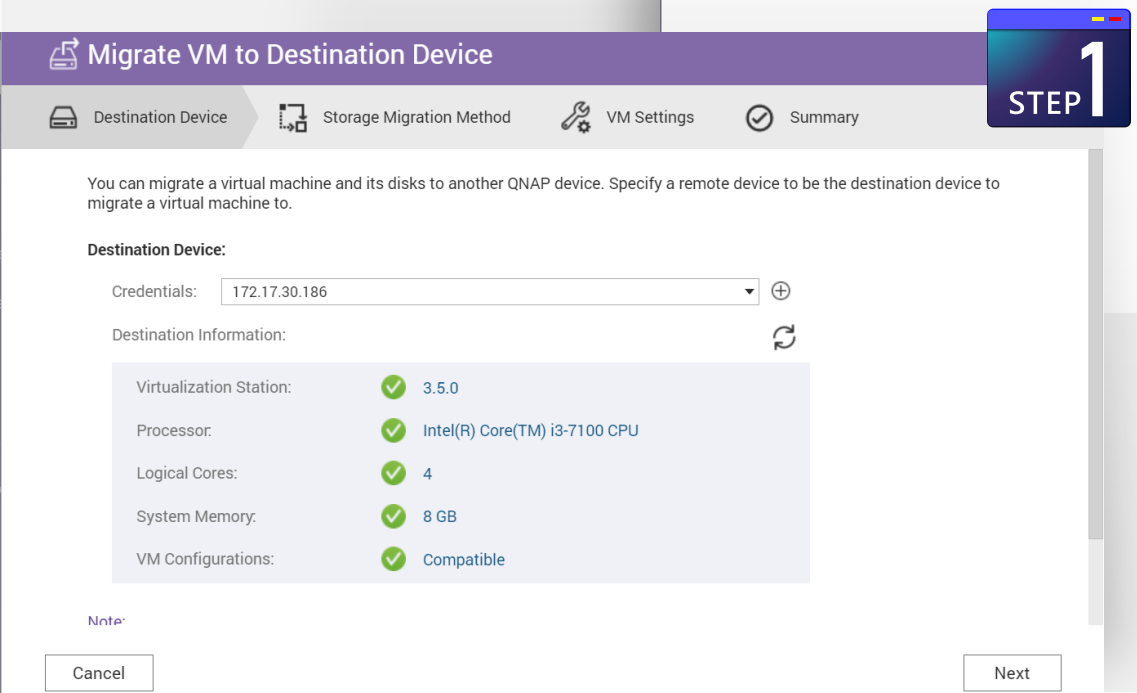


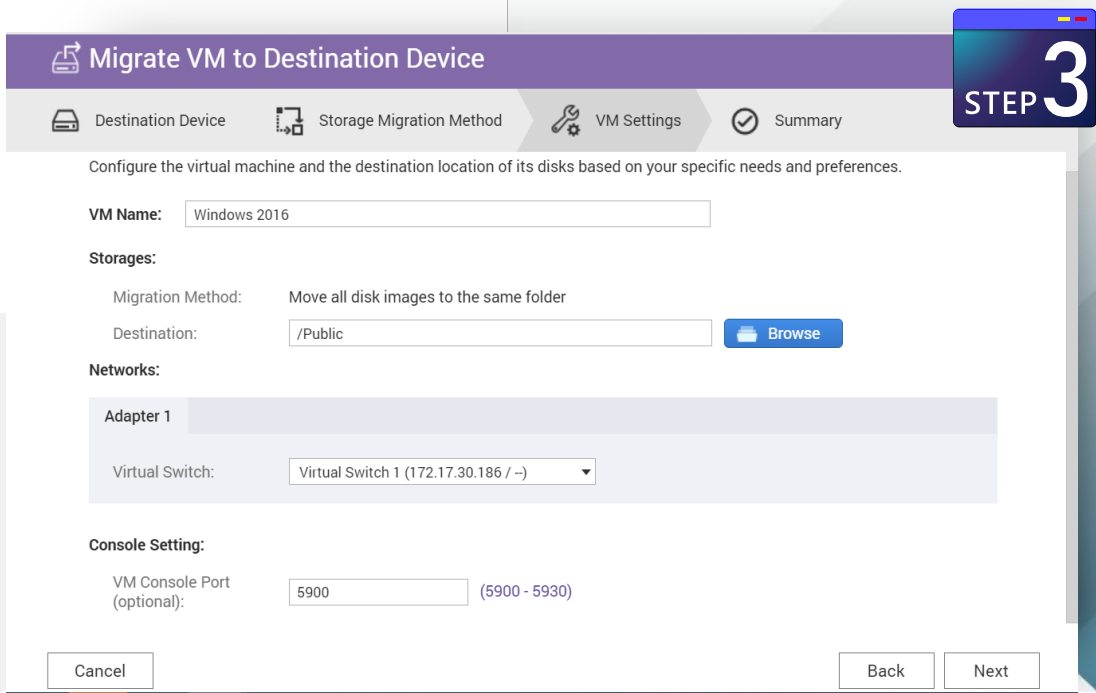
One NAS can do "Migrate in "and "Migrate out"



Simple UI operation in three steps to complete VM Live Migration







VM Live Migration advantages and benefits

Advantage

- Virtual machine live migration ensures smooth service

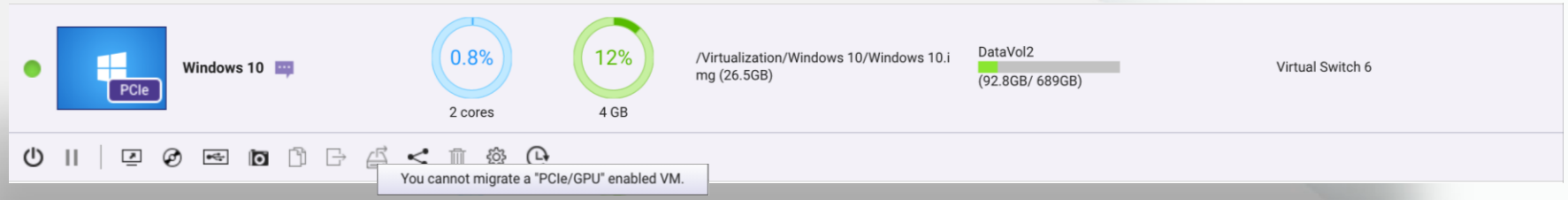
Benefits

- It can achieve the effect of IT maintenance without affecting the user's use of the services on the virtual machine
- IT can flexibly maintain hardware and firmware upgrades and repairs, or periodically restart operations.
- Business operations will not be affected by IT maintenance.
- You don't need the same NAS model, the same number of hard drives and slot locations, you only need to correspond to the same CPU platform (Intel&Intel /AMD&AMD) to use.

VM Live Migration

Considerations-1

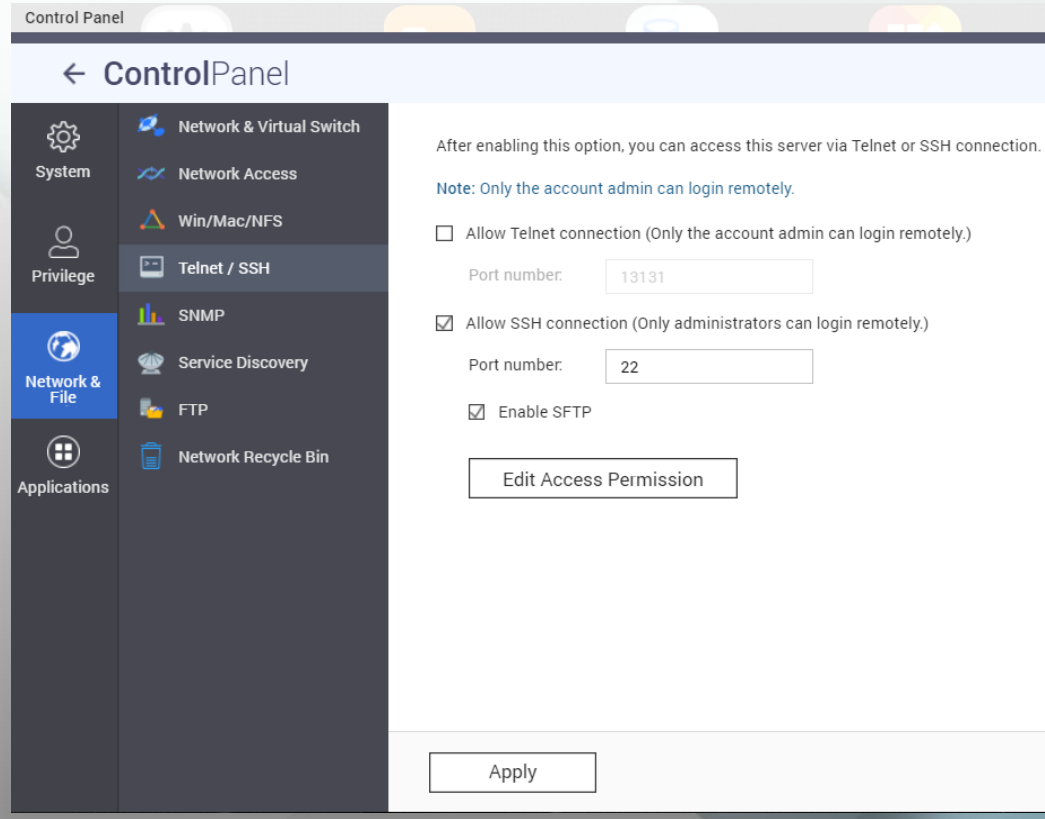
- If the VM uses the Device Passthrough (PCIe/Blu-ray) function, live migration cannot be used.
  - Because the physical device used by the original VM was live migrated, the original physical device ID will not be recognized when the VM is migrated to the new NAS.



- VM Live Migration function support models only support the same platform model of X86 architecture
  - Intel platform NAS VM Live Migration to Intel platform NAS
  - AMD platform NAS VM Live Migration to AMD platform NAS
- Virtualization Station 3.5 is only compatible with QTS 4.5.1 or later version.

Considerations-2

- VMs exported from Virtualization Station 3.5 are only compatible with Virtualization Station 3.5 and later versions.
- Secure shell (SSH) service is required to migrate VMs. Ensure that SSH is enabled in "Control Panel > Network & File Services > Telnet / SSH" to prevent migration failure.
- Ports 16500-16550 are required for VM migration. Ensure that these ports are not blocked to avoid migration failure.



Virtualization Station 3.5

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